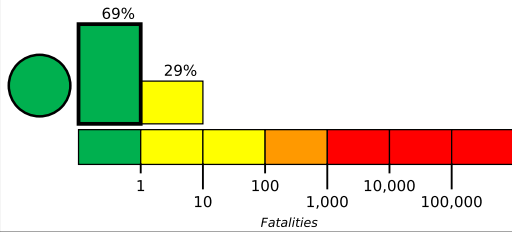


M 5.1, 4 km SE of Sparta, North Carolina

Origin Time: 2020-08-09 12:07:37 UTC (Sun 08:07:37 local)
Location: 36.4835° N 81.1053° W Depth: 5.0 km

Created: 8 hours, 24 minutes after earthquake

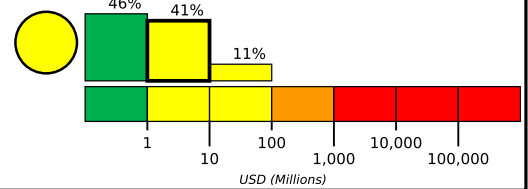
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

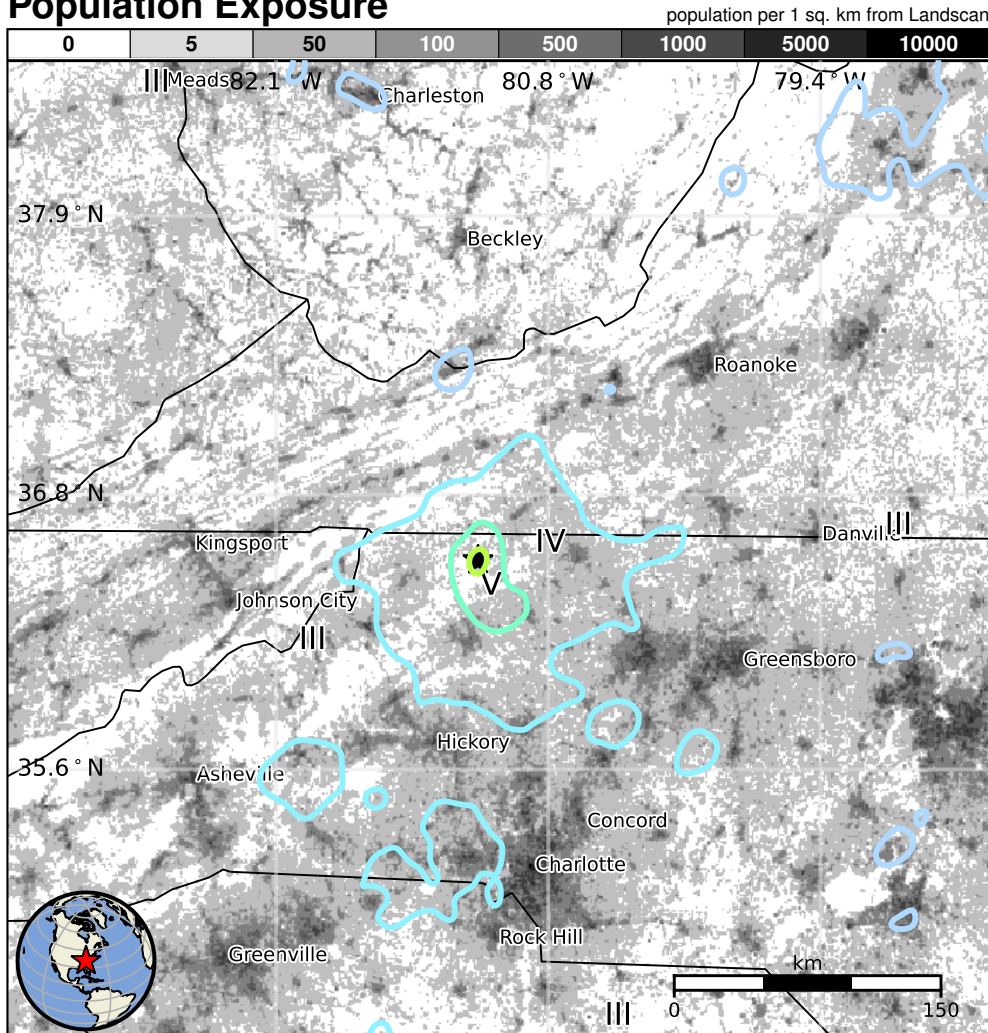


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	14,137k*	1,040k	28k	4k	1k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-08-02	316	4.9	V(12k)	—
1973-11-30	267	4.6	V(190k)	—
1980-07-27	315	5.0	VI(50k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Sparta	2k
V	Jonesville	2k
V	Hays	2k
V	Elkin	4k
IV	Thurmond	2k
IV	Fairplains	2k
III	Ironville	289k
III	Charlotte	731k
III	West Raleigh	339k
III	Raleigh	404k
II	Charleston	51k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/se60324281#pager>

bold cities appear on map.

(k = x1000)

Event ID: se60324281